

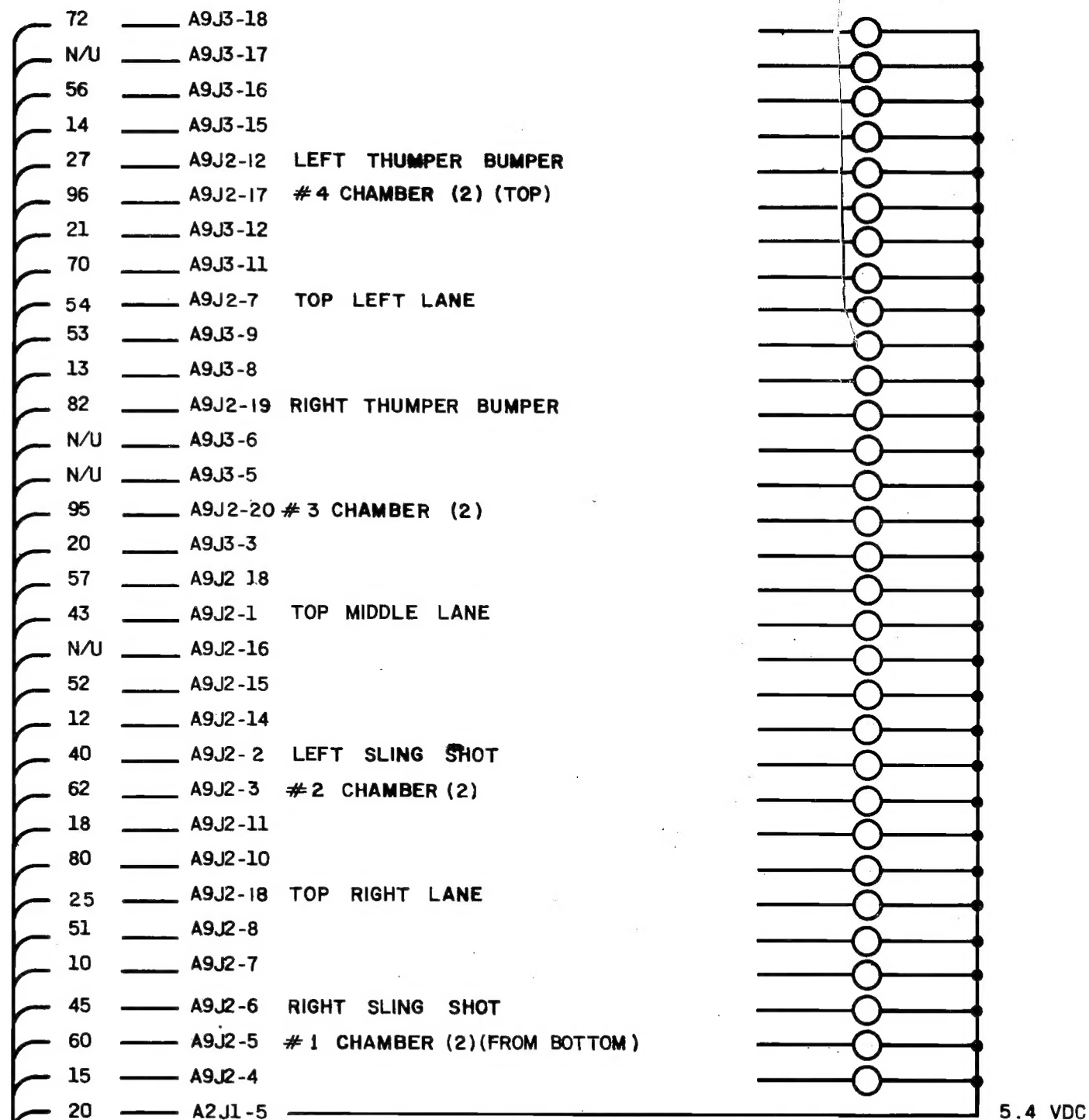
NOTES: (CAUTION)  
1. USE BALLY PART NO. E-713 FOR 115-120 VAC.  
2. USE BALLY PART NO. E-713-1 FOR 220-240 VAC.  
3. \* INDICATES AID TEST POINT.

| TO        | J1 PIN | TO      | J1 PIN |
|-----------|--------|---------|--------|
| A4J3-9    | 1      | A4J3-3  | 11     |
| A4J3-10   | 2      | A2J2-4  | 15     |
| A4J3-11   | 3      | A3J2-8  | 16     |
| A4J3-12   | 4      | A2J2-6  | 17     |
| A4J3-13   | 5      | A2J2-3  | 18     |
| A4J3-14   | 6      | A4J3-1  | 19     |
| A4J3-15   | 7      | A3J2-7  | 20     |
| A4J3-16   | 8      | SPEAKER | 9      |
| A4J3-2    | 10     | A8J2-1  | 12     |
| DOOR PLUG |        | A8J2-2  | 13     |

A7 CABINET ASS'Y. WIRING  
NOTE: DIODES ARE IN4004, (E-587-6)







TO  
W-1207-II

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

|   |  |            |  |      |  |                                       |  |                                      |  |
|---|--|------------|--|------|--|---------------------------------------|--|--------------------------------------|--|
| REMOVE ALL BURRS                                    |  | DR. BY     |  | DATE |  | Bally MANUFACTURING CORP.             |  | 1239                                 |  |
| TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED |  | CK. BY     |  | DATE |  | 2640 BELMONT AVENUE CHICAGO, ILLINOIS |  |                                      |  |
| FRACTIONS ± .008                                    |  | AP'D BY    |  | DATE |  | PRINT CONTROL                         |  | DIE SIZE C.C. FT. PER M. LBS. PER M. |  |
| DECIMALS ± .003                                     |  | AP'D BY    |  | DATE |  | NAME                                  |  | WIRING DIAGRAM                       |  |
| EXCEPT HOLE DIA.'S                                  |  | FINISH:    |  |      |  | MATERIAL                              |  | CENTAUR                              |  |
| ANGLES ± 1/2°                                       |  | HARDENING: |  |      |  | CODE                                  |  | ASSEM. NO. USED                      |  |
| DO NOT SCALE DRAWING                                |  |            |  |      |  |                                       |  | SCALE                                |  |
|   |  |            |  |      |  |                                       |  | PART NO. W-1255-2 <i>h</i>           |  |

| OPER. | DEPT. | DESCRIPTION | TOOL NO. |
|-------|-------|-------------|----------|
|-------|-------|-------------|----------|

| NO. | LET. | CHANGE | DATE | BY |
|-----|------|--------|------|----|
|-----|------|--------|------|----|



NOTES:

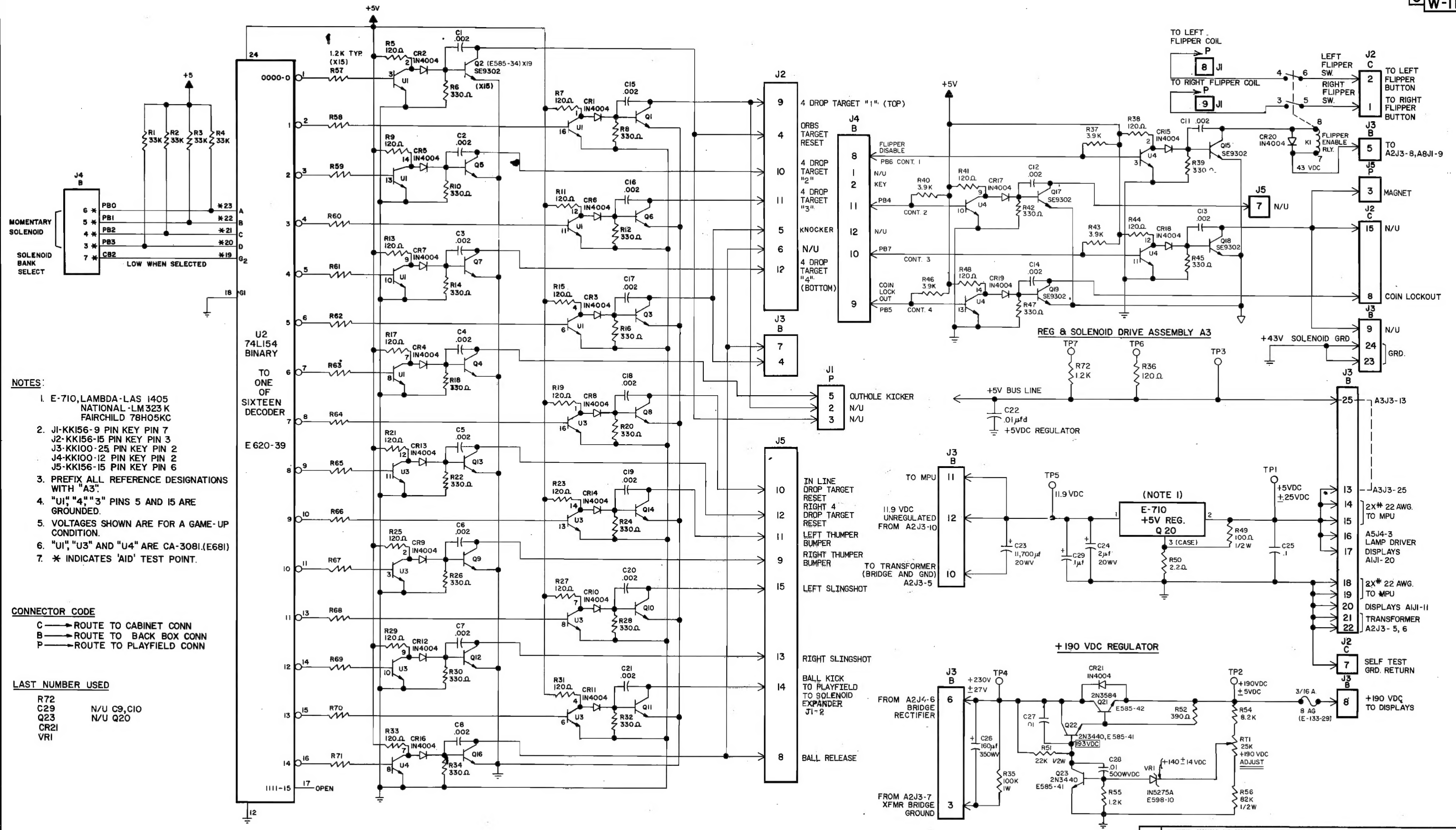
1. E-710, LAMBDA-LAS 1405 NATIONAL - LM323 K FAIRCHILD 78H05KC
2. J1-KK156-9 PIN KEY PIN 7  
J2-KK156-15 PIN KEY PIN 3  
J3-KK100-25 PIN KEY PIN 2  
J4-KK100-12 PIN KEY PIN 2  
J5-KK156-15 PIN KEY PIN 6
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A3"
4. "U1", "U4", "U3" PINS 5 AND 15 ARE GROUNDED.
5. VOLTAGES SHOWN ARE FOR A GAME-UP CONDITION.
6. "U1", "U3" AND "U4" ARE CA-3081.(E681)
7. \* INDICATES 'AID' TEST POINT.

CONNECTOR CODE

- C → ROUTE TO CABINET CONN  
B → ROUTE TO BACK BOX CONN  
P → ROUTE TO PLAYFIELD CONN

LAST NUMBER USED

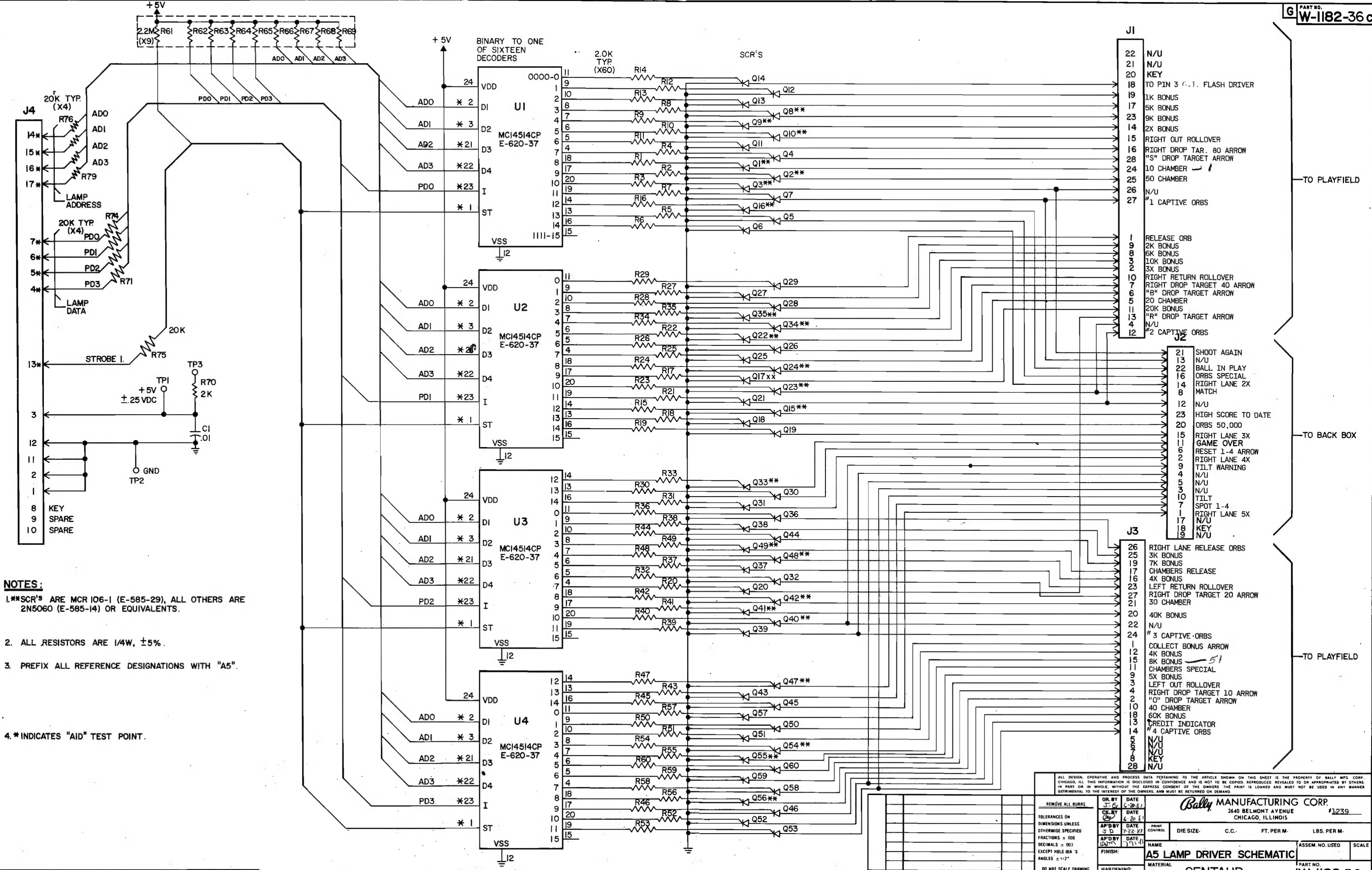
- R72  
C29 N/U C9, C10  
Q23 N/U Q20  
CR21  
VR1



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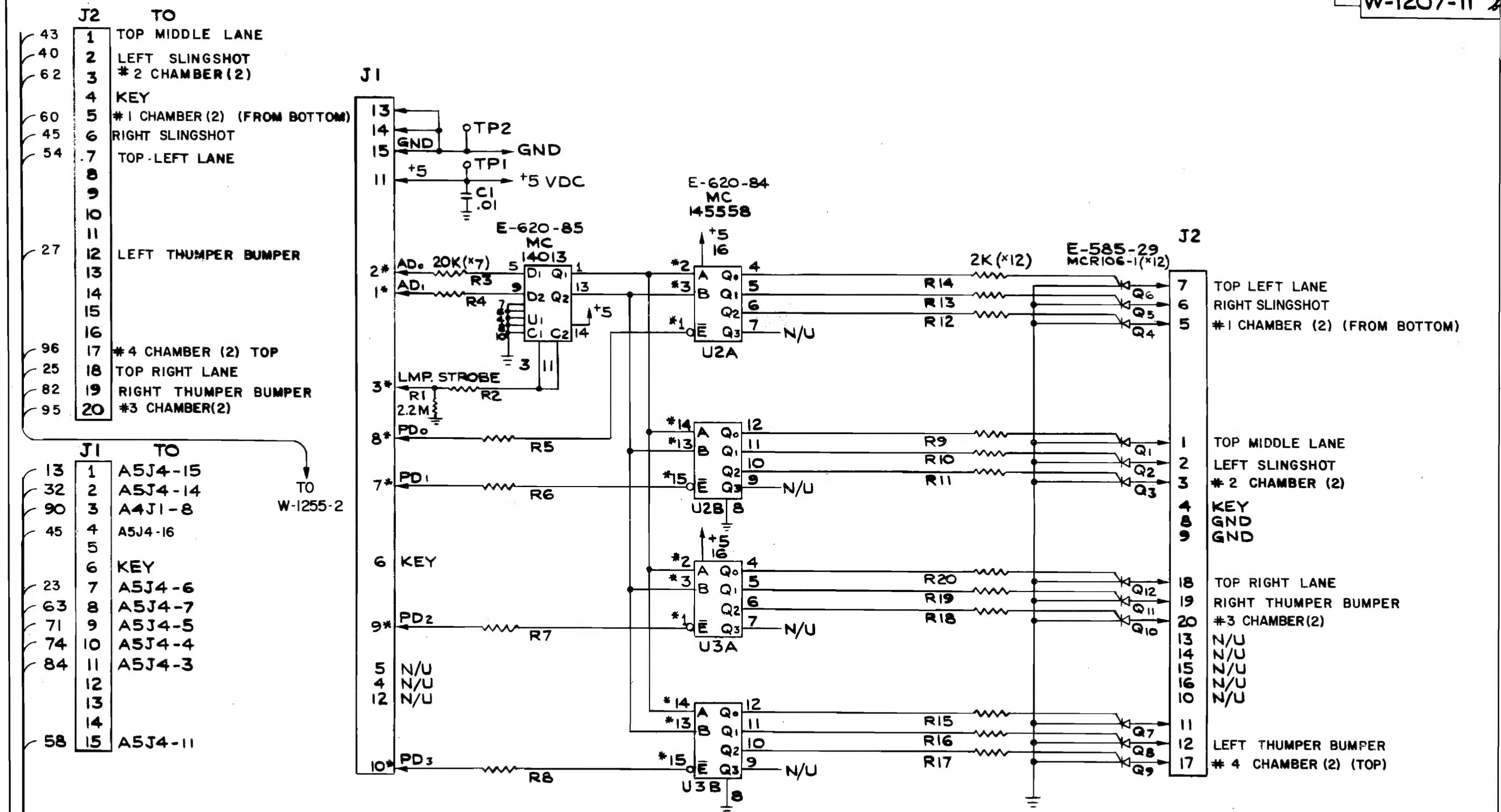
|   |  |       |             |          |
|---|--|-------|-------------|----------|
| OPER.   |  | DEPT. | DESCRIPTION | TOOL NO. |
| <div style="display: flex; justify-content: space-between;"> <div> <p>REMOVE ALL BURNS</p> <p>TOLERANCES UNLESS OTHERWISE SPECIFIED:</p> <p>FRACTIONS = 0/8</p> <p>DECIMALS = .003</p> <p>EXCEPT HOLE DIA. S</p> <p>ANGLES = 1/2"</p> <p>DO NOT SCALE DRAWING</p> </div> <div> <p>DR. BY: J. G. 6-7-78</p> <p>DATE: 6-7-78</p> <p>AP'D BY: J. G. 6-7-78</p> <p>DATE: 6-7-78</p> <p>FINISH: 6-7-78</p> <p>HARDENING: 6-7-78</p> </div> <div> <p>Bally MANUFACTURING CORP. 1239</p> <p>2640 BELMONT AVENUE CHICAGO, ILLINOIS</p> <p>NAME: SOLENOID DRIVER VOLTAGE REGULATOR SCHEMATIC</p> <p>MATERIAL: CENTAUR</p> <p>ASSEM. NO. USED: 1239</p> <p>SCALE: 1/2"</p> <p>PART NO. W-1183-36c</p> </div> </div> |  |       |             |          |





|  |   |  |                            |
|--|---|--|----------------------------|
| REMOVE ALL DIMENSIONS ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS = 008 DECIMALS = .003 EXCEPT HOLE DIA'S ANGLES = 1/2" |   | DO NOT SCALE DRAWING   |                            |
| OR BY DATE<br>3-2-81<br>6-20-81  | PRINT CONTROL<br>DATE<br>7-22-81<br>7-22-81 | Bally MANUFACTURING CORP.<br>2640 BELMONT AVENUE<br>CHICAGO, ILLINOIS 60647<br>#1239 |                            |
| ASSEMBLY<br>DATE<br>7-22-81<br>7-22-81   | FINISH<br>DATE<br>7-22-81<br>7-22-81        | NAME<br>A5 LAMP DRIVER SCHEMATIC   | ASSEMBLY NO. USED<br>SCALE |
| HARDENING<br>DATE<br>7-22-81<br>7-22-81  | MATERIAL<br>CENTAUR                         | PART NO.<br>W-1182-36 c  | LBS. PER M.                |

| OPER. | DEPT. | DESCRIPTION | TOOL NO. |
|-------|-------|-------------|----------|
|       |       |             |          |



TO  
W-1187-32C

- NOTES:**
1. \* INDICATES "AID" TEST POINT.
  2. ALL RESISTORS ARE 1/4 W, ± 5%.
  3. VOLTAGES SHOWN ARE FOR A GAME UP CONDITION.
  4. SCR'S ARE MCR-106-1, (E-585-29)
  5. PREFIX ALL REFERENCE DESIGNATION WITH "A9".

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| OPER. | DEPT. | DESCRIPTION | TOOL NO. |
|-------|-------|-------------|----------|
|-------|-------|-------------|----------|

| NO. | LET. | CHANGE | DATE | BY |
|-----|------|--------|------|----|
|     |      |        |      |    |
|     |      |        |      |    |
|     |      |        |      |    |
|     |      |        |      |    |
|     |      |        |      |    |
|     |      |        |      |    |
|     |      |        |      |    |
|     |      |        |      |    |
|     |      |        |      |    |

REMOVE ALL BURRS

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED

FRACTIONS ± .008

DECIMALS ± .003

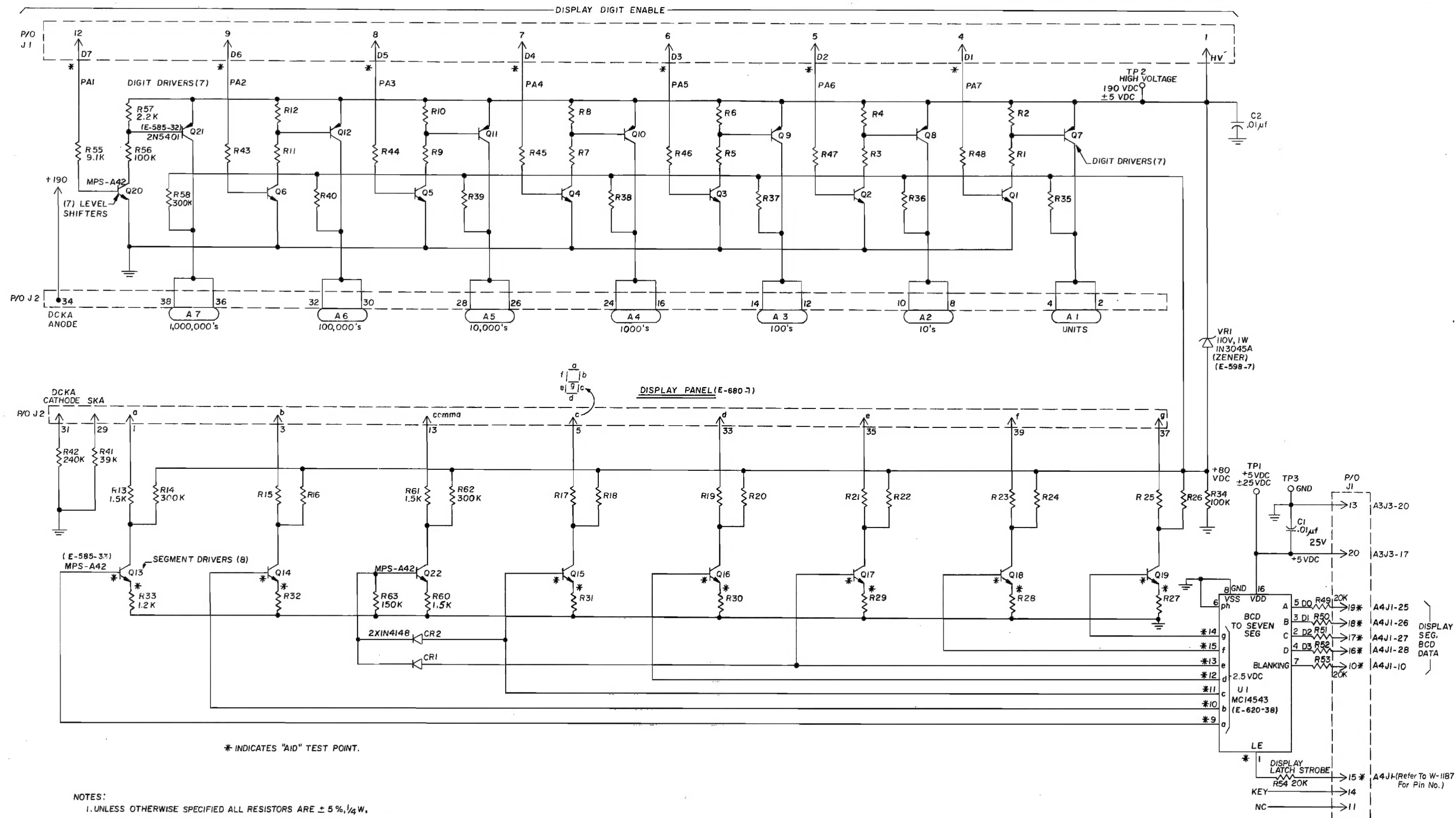
EXCEPT HOLE DIA S

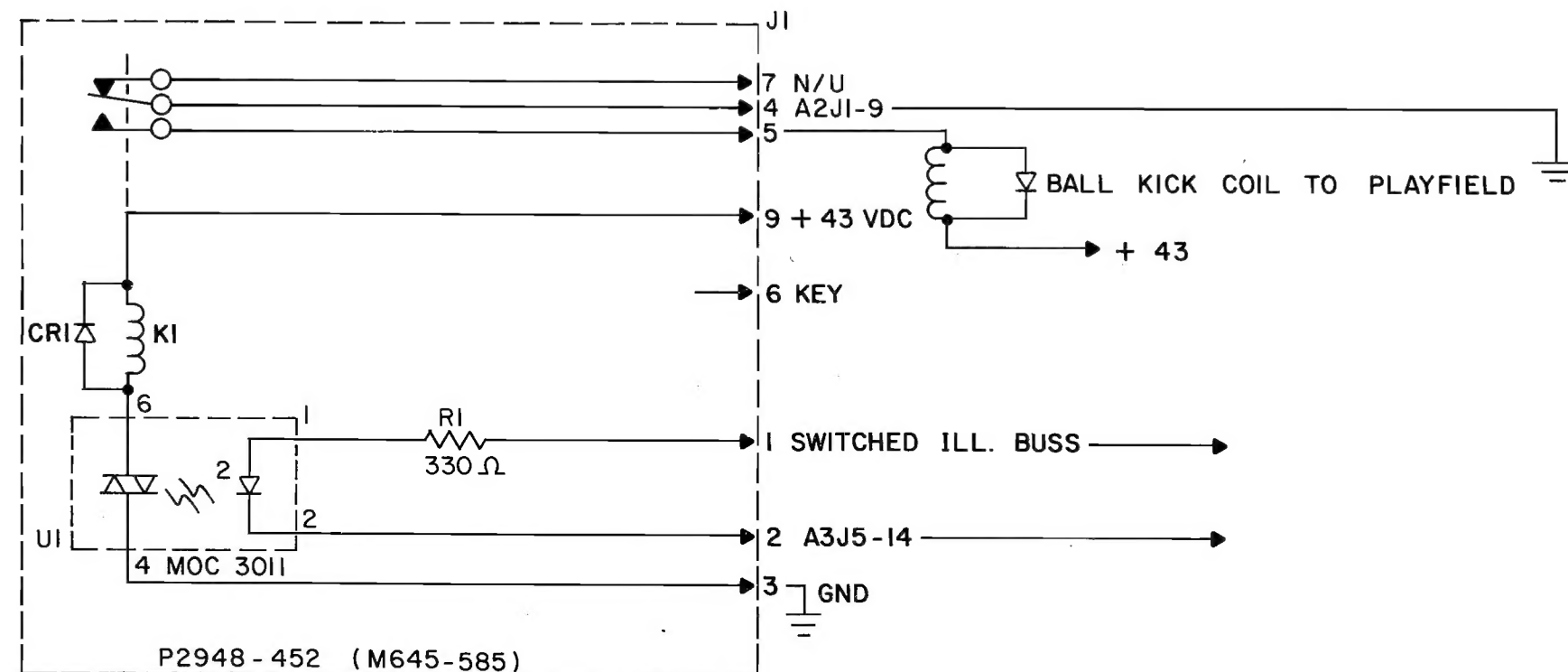
ANGLES ± 1°

DO NOT SCALE DRAWING

|                |                 |                                       |                 |
|----------------|-----------------|---------------------------------------|-----------------|
| DR. BY<br>A.V. | DATE<br>7-10-81 |                                       |                 |
| CK. BY         | DATE            |                                       |                 |
| AP'D BY<br>JD  | DATE<br>7-22-81 | PRINT CONTROL                         |                 |
| AP'D BY<br>JRM | DATE<br>7-23-81 | NAME (A9) AUXILIARY LAMP DRIVER BOARD |                 |
| FINISH:        |                 | MATERIAL                              | ASSEM. NO. USED |
| HARDENING:     |                 | CODE                                  | SCALE           |
|                |                 | PART NO.<br>W-1207-11                 |                 |

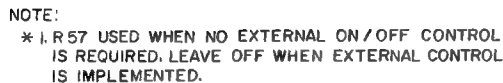






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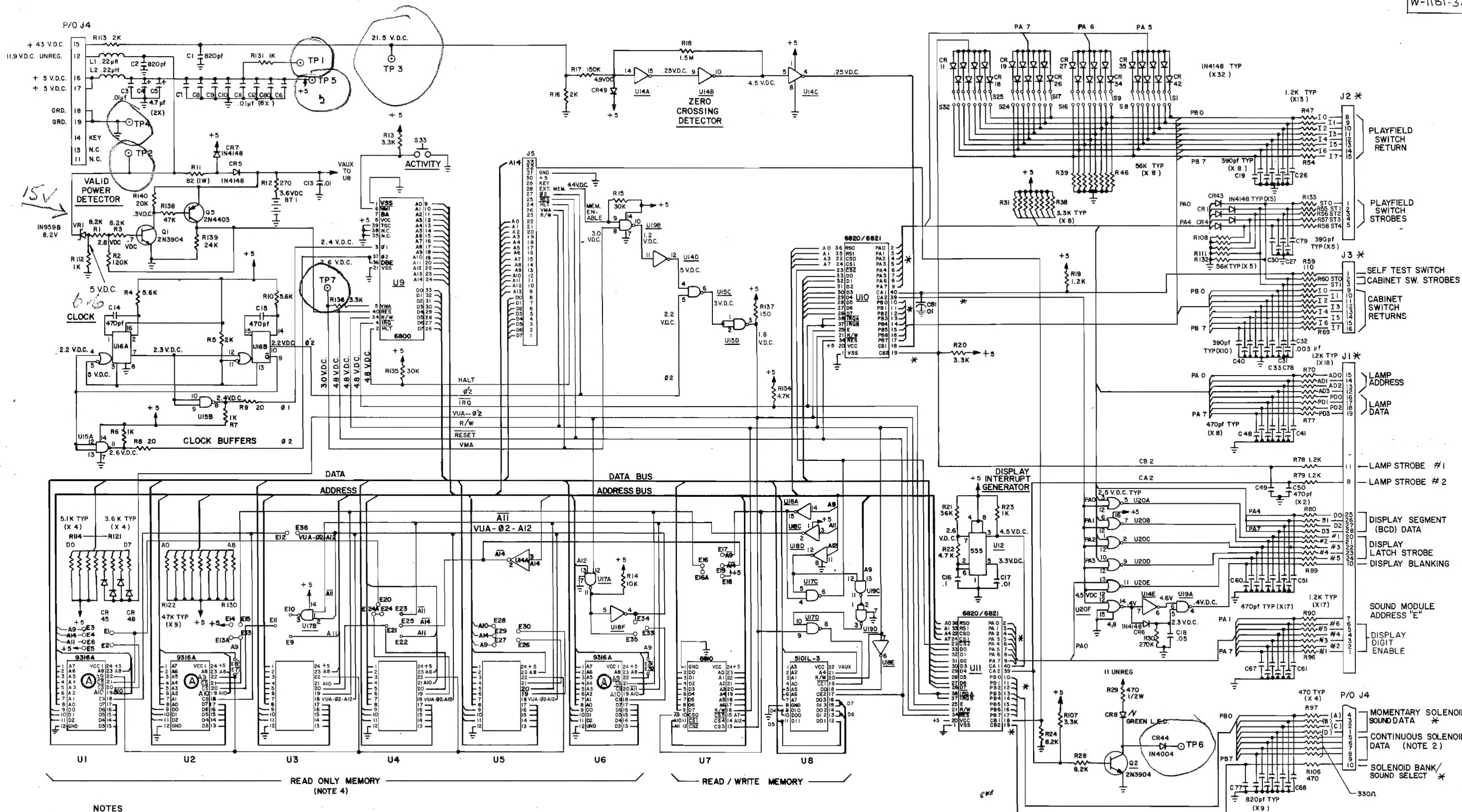
|     |      |        |      |    |  |  |  |  |  |
|-----|------|--------|------|----|--|--|--|--|--|
|     |      |        |      |    | DETACHMENT TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.  |  |  |  |  |
|     |      |        |      |    | REMOVE ALL BURRS<br>TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED<br>FRACTIONS $\pm .008$<br>DECIMALS $\pm .003$<br>EXCEPT HOLE DIA.'S<br>ANGLES $\pm 1/2^\circ$<br>DO NOT SCALE DRAWING |  |  |  |  |
|     |      |        |      |    | DR. BY JCG DATE 10-5-81<br>CK. BY [Signature] DATE 10-5-81<br>AP'D BY JD DATE 10-6-81<br>AP'D BY [Signature] DATE 10/10/81<br>FINISH:<br>HARDENING:  |  |  |  |  |
|     |      |        |      |    | Bally MANUFACTURING CORP.<br>2640 BELMONT AVENUE # 1239<br>CHICAGO, ILLINOIS   |  |  |  |  |
|     |      |        |      |    | PRINT CONTROL<br>DIE SIZE: C.C. FT. PER M. LBS. PER M.   |  |  |  |  |
|     |      |        |      |    | NAME<br>SOLENOID EXPANDER (SCHEMATIC)  |  |  |  |  |
|     |      |        |      |    | ASSEM. NO. USED<br>AS-2518-66  |  |  |  |  |
|     |      |        |      |    | MATERIAL<br>CODE   |  |  |  |  |
|     |      |        |      |    | PART NO.<br>W-1251-1 b   |  |  |  |  |
| NO. | LET. | CHANGE | DATE | BY |  |  |  |  |  |



| <u>LAST NO'S. USED</u> | <u>NO'S. NOT USED</u> |
|------------------------|-----------------------|
| R63                    | R34, R49              |
| C 32                   |                       |
| Q3                     |                       |
| CR2                    |                       |
| U8                     |                       |

TELEDYNE BCT 445002

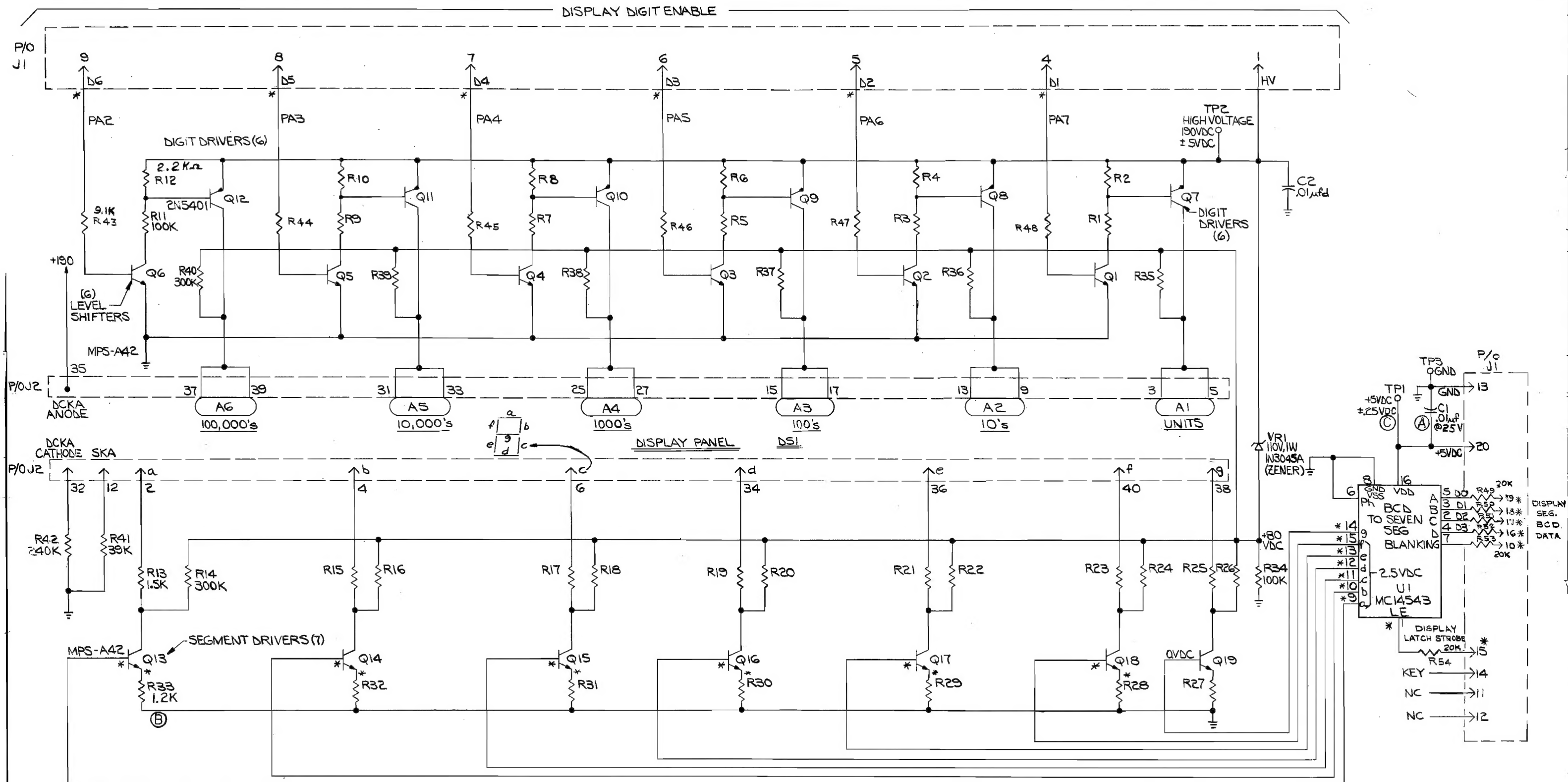
|   |  |                 |  |                 |  |  |  |                              |  |               |  |            |  |             |  |
|---|--|-----------------|--|-----------------|--|--|--|------------------------------|--|---------------|--|------------|--|-------------|--|
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| REMOVE ALL BURRS  |  | DR. BY<br>FFC   |  | DATE<br>8-6-81  |  | <i>Bally</i> MANUFACTURING CORP.<br>2640 BELMONT AVENUE<br>CHICAGO, ILLINOIS |  |                              |  |               |  | # 1239     |  |             |  |
| TOLERANCES ON<br>DIMENSIONS UNLESS<br>OTHERWISE SPECIFIED   |  | CK. BY<br>AMCR  |  | DATE<br>8-6-81  |  | PRINT<br>CONTROL   |  | DIE SIZE.                    |  | C.C.          |  | FT. PER M. |  | LBS. PER M. |  |
| FRACTIONS = .008<br>DECIMALS = .003<br>EXCEPT HOLE DIA. S<br>ANGLES ± 1/2°  |  | AP'D BY<br>AMCR |  | DATE<br>8-11-81 |  | NAME<br>SAY IT AGAIN (SCHEMATIC)   |  | ASSEM. NO. USED<br>AS-2518-B |  | SCALE<br>1/2" |  |            |  |             |  |
| DO NOT SCALE DRAWING  |  | HARDENING:<br>X |  | MATERIAL        |  | CODE   |  | P/RT NO.<br>W-1258c          |  |               |  |            |  |             |  |



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| Bally MANUFACTURING CORP.      |      | 2640 BELMONT AVENUE<br>CHICAGO, ILLINOIS |      | 1119-E                 |       |
|--------------------------------|------|--|------|------------------------|-------|
| DR. BY                         | DATE | REV.                                     | DATE | PRINTED                | SCALE |
| CK. BY                         | DATE | REV.                                     | DATE | PRINTED                | SCALE |
| APP'D BY                       | DATE | REV.                                     | DATE | PRINTED                | SCALE |
| APP'D BY                       | DATE | REV.                                     | DATE | PRINTED                | SCALE |
| M.P.U. CONTROL BOARD SCHEMATIC |      |  |      | ASSEMBLY NO. USED ON W |       |
| MATERIAL                       |      |  |      | PART NO.               |       |
| W-1181-3c                      |      |  |      | W-1181-3c              |       |





NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE  $\pm 5\%$ ,  $1/4W$ .
2. PREFIX ALL REFERENCE DESIG. WITH ASSEMBLY REFERENCE DESIG. "A1"
3. \* INDICATES 'AID' TEST POINT.

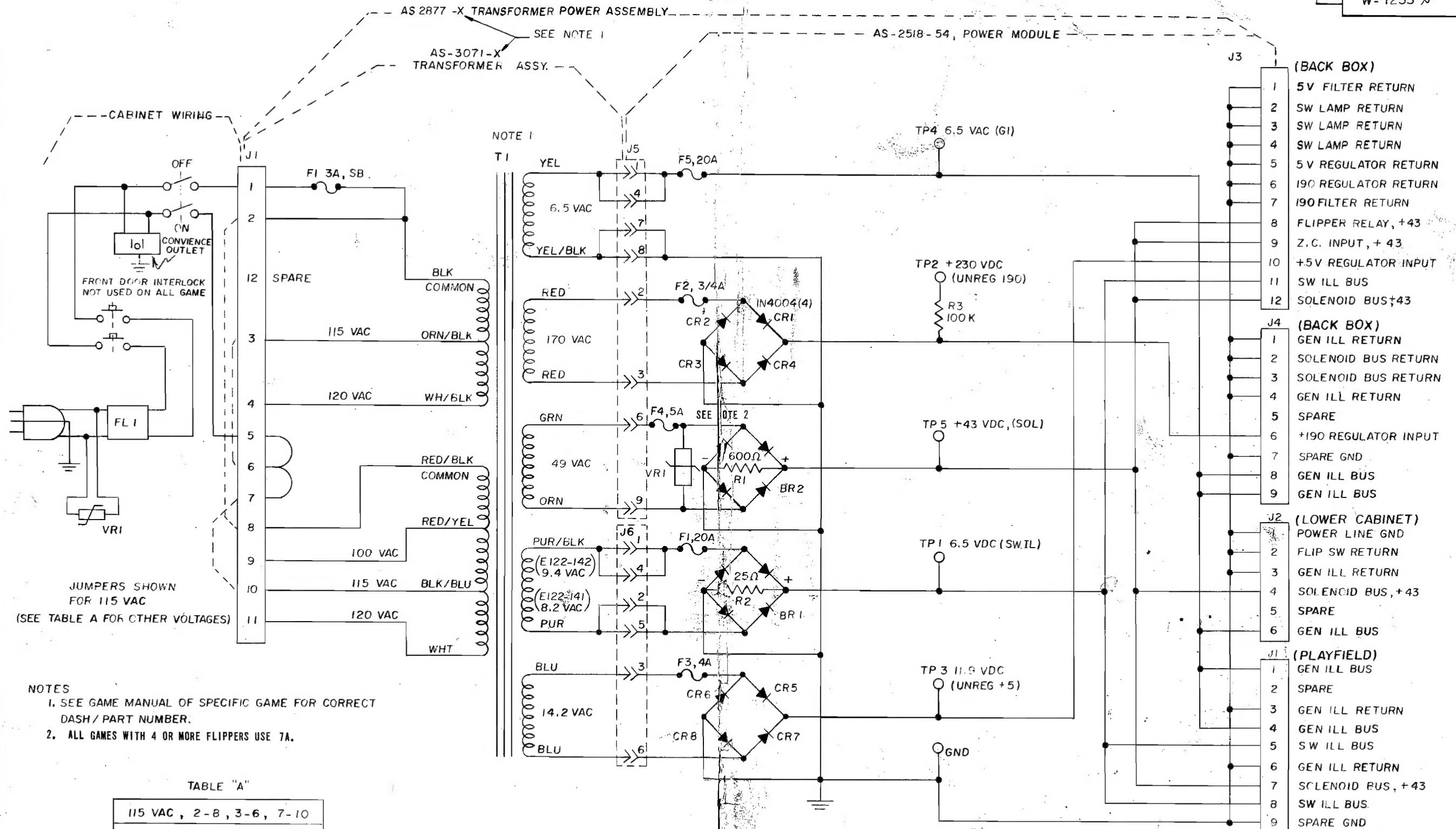
DIE SIZE — C.C. — FT. PER M — LBS. PER M —

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|     |      |           |        |    |
|-----|------|-----------|--------|----|
| 3   | C    | WAS VAC   | 620-80 |    |
| 2   | B    | WAS 1K    | 328-80 |    |
| 1   | A    | WAS 500 V | 4-K79  |    |
| NO. | LET. | CHANGE    | DATE   | BY |

|                        |  |       |       |       |       |       |       |       |       |       |       |                       |       |
|------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------|-------|
| DATE<br>BY<br>7/2/72   | Bally MANUFACTURING CORP #1120-E<br>2640 BELMONT AVENUE<br>CHICAGO, ILLINOIS<br>NOV 10 1972<br>MAY 25 1972 |       |       |       |       |       |       |       |       |       |       |                       |       |
| DATE<br>BY<br>5/20/72  |  |       |       |       |       |       |       |       |       |       |       |                       |       |
| DATE<br>BY<br>10/14/72 | PRINT<br>CONTROL   | CONF. | CONF. | CONF. | CONF. | CONF. | CONF. | CONF. | CONF. | CONF. | CONF. | TOTAL                 | SCALE |
| DATE<br>BY<br>2/14/77  | NAME 6 DIGIT   |       |       |       |       |       |       |       |       |       |       | ASSEM. NO. USED ON W/ |       |
| DATE<br>BY<br>2/14/77  | DISPLAY BOARD SCHEMATIC A1   |       |       |       |       |       |       |       |       |       |       | AS-2518-21            |       |
| DATE<br>BY<br>2/14/77  | MATERIAL   |       |       |       |       |       |       |       |       |       |       | PART NO.              |       |
| DATE<br>BY<br>2/14/77  |  |       |       |       |       |       |       |       |       |       |       | W-1184-3c             |       |

|     |      |        |      |  |  |  |  |   |  |  |  |  |  |  |  |   |  |                      |  |
|-----|------|--------|------|--|--|--|--|---|--|--|--|--|--|--|--|---|--|----------------------|--|
|     |      |        |      | REMOVE ALL BURRS<br>TOLERANCES ON<br>DIMENSIONS UNLESS<br>OTHERWISE SPECIFIED<br>FRACTIONS $\pm .008$<br>DECIMALS $\pm .003$<br>EXCEPT HOLE DIA.'S<br>ANGLES $\pm 1/2^\circ$<br>DO NOT SCALE DRAWING |  |  |  | DR. BY <u>FFC</u> DATE <u>1-22-81</u><br>CK. BY _____ DATE _____<br>AP'D BY <u>FFC</u> DATE <u>1-23-81</u><br>AP'D BY <u>FFC</u> DATE <u>1-23-81</u><br>FINISH: <u>✓</u><br>HARDENING: <u>✓</u> |  |  |  | Bally MANUFACTURING CORP. #1219<br>2640 BELMONT AVENUE<br>CHICAGO, ILLINOIS<br>PRINT CONTROL _____ DIE SIZE: _____ C.C.: _____ FT. PER M. _____ LBS. PER M. _____<br>NAME _____<br>G I FLASHER (SCHEMATIC)<br>MATERIAL _____<br>CODE _____ |  |  |  | ASSEM. NO. USED<br>AS-2518-68<br>SCALE <u>✓</u> |  | PART NO.<br>W-1253 b |  |
| NO. | LET. | CHANGE | DATE | BY   |  |  |  |   |  |  |  |  |  |  |  |   |  |                      |  |



- NOTES
1. SEE GAME MANUAL OF SPECIFIC GAME FOR CORRECT DASH / PART NUMBER.
  2. ALL GAMES WITH 4 OR MORE FLIPPERS USE 7A.

TABLE "A"

|                         |
|-------------------------|
| 115 VAC, 2-8, 3-6, 7-10 |
| 120 VAC, 2-8, 4-6, 7-11 |
| 220 VAC, 4-8, 7-9       |
| 240 VAC, 4-8, 7-11      |

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REMOVE ALL BURRS

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED  
FRACTIONS ± .008  
DECIMALS ± .003  
EXCEPT HOLE DIA.'S  
ANGLES ± 1/2°

DO NOT SCALE DRAWING

DR. BY  
FFC  
DATE  
7-10-80  
CK. BY  
AMCR  
DATE  
7-11-80  
AP'D BY  
DATE  
AP'D BY  
DATE  
FINISH:  
HARDENING:

**Bally MANUFACTURING CORP.**  
2640 BELMONT AVENUE  
CHICAGO, ILLINOIS #1196  
FEB 20 1981  
PRINT CONTROL  
DIE SIZE  
C.C.  
FT. PER M.  
LBS. PER M.  
NAME  
POWER SUPPLY SCHEMATIC  
MATERIAL  
CODE  
ASSEM. NO. USED  
SCALE  
PART NO.  
W-1233

OPER. DEPT. DESCRIPTION TOOL NO.

NO. LET. DATE BY